OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC223285

Clec16a (NM_177562) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clec16a (NM_177562) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clec16a
Synonyms:	4932416N17Rik; curt; mKIAA0350
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223285 representing NM_177562 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTGGACGCTCACGGAGCTGGGTGGGCGGGGGCCACAGCAAGTCCTCCCGCAACATCCACTCCTTGG ACCACCTGAAGTACCTGTACCATGTTTTAACAAAAAACACCACTGTCACAGAACAAAATCGGAACCTGCT CGTGGAGACCATCCGTTCCATCACTGAGATCCTGATTTGGGGCGATCAAAATGACAGCTCTGTGTTTGAC TTCTTCCTGGAGAAGAATATGTTTGTTTTCTTCTTGAACATTCTGCGGCAGAAATCAGGCCGTTATGTGT GTGTGCAGCTGCTACAGACCTTGAACATTCTCTTTGAGAACATCAGCCACGAGACATCGCTCTATTATTT GCTGTCTAATAACTATGTAAACTCGATCATTGTCCATAAATTTGACTTTTCCGACGAGGAGATCATGGCG TATTACATATCGTTCCTGAAAACGCTTTCATTAAAGCTCAACAACCACACTGTCCATTTCTTTTACAATG AGCACACCAATGACTTTGCCCTGTACACAGAAGCCATCAAGTTCTTCAATCATCCCGAAAGCATGGTTCG AATTGCCGTGAGAACCATCACTTTGAATGTCTACAAAGTGTCATTGGATAACCAGGCCATGCTGCACTAC ATCAGAGACAAAACCGCTGTCCCGTACTTCTCCAATTTGGTCTGGTTCATTGGGAGCCATGTGATCGAAC TTGACAACTGTGTGCAGACAGATGAGGAGCACCGGAATCGGGGGAAACTGAGTGACCTGGTGGCTGAGCA CTTGGACCACCTGCACTATCTCAACGACATCCTGATCATCAACTGCGAGTTCCTCAATGACGTACTCACC GACCACCTGCTCAACAGGCTTTTCCTGCCGCTCTACGTGTACTCCCTGGAGAACCCCGACAAGGGAGGAG AACGGCCAAAAATCAGCCTGCCTGTGTCCCTCTATCTTCTCTCCCAGGTCTTCCTCATTATACATCACGC CCCGCTGGTGAACTCTCTGGCTGAAGTCATTCTGAATGGTGATCTATCTGAGACATACACAAAGCCTGCA CAGGATGTTCCCAGAAGTTCTGCCAAGCCCAGCATCCGGTGCTTCATTAAGCCCACTGAGACACTCGAGC GGTCCCTTGAGATGAACAAGCACAAGGGCAAGAAGCGGATGCAAAAGAGACCCAACTACAAAAACGTTGG GGAGGAGGAGGACGAGGAGAGAGGGTCTGCTGAAGATGCCCAGGAAGACGCTGAGAAGACTAAAGAGATT GAGATGGTGATCATGAAGCTTGGCAAGCTCTCAGAGGTGGCCGCTGCTGGGACCTCAGTGCAGGAGCAGA ACACCACAGACGAGGAGAAGAGCGCCGCCACGAACTCAGAGAATGCACAGTGGAGCAGACCCTTCCTGGA TATGGTGTACCATGCCCTGGACAGCCCTGACGATGACTATCACGCCCTCTTCGTGCTCTGCCTCCTGTAT GCCATGTCTCATAACAAAGGCATGGATCCTGAAAAACTAAAACGAATTCAGCTCCCAGTGCCAAGTGAAG

View online »

CTGAGAAAACCACCTACAACCATCTGCTGGCCGAGAGGCTCATCAGGATCATGAACAATGCTGCTCAGCC
AGATGGCAGGATCCGGTTGGCTACACTGGAGCTGAGCTGCCTGCTCCTGAAGCAGCAAGTACTGACCAGC
TCTGGCTGTGTCATCAAGGATGTGCACCTGGCCTGTTTGGAGGGTGCAAGAGAAGAGAGTGTCCACCTTG
TACGTCATTTCTATAAGGGAGAAGAGATTTTCTTGGACATGTTTGAAGATGAGTACAGGAGCATGACAAT
AAAGCCCATGAATGTGGAGTATCTCATGATGGATGCTTCCATCCTCCTGCCCCCAACGGGCACTCCACTG
ACTGGCATTGACTTTGTGAAGCGGCTGCCATGTGGTGATGTGGAGAAGACGAGGCGGGCCATCCGGGTAT
TCTTCATGCTGCGTTCCCTGTCACTGCAGCTGCGAGGGGAACCTGAGACCCAGTTGCCACTGACTCGGGA
GGAGGACCTGATCAAAACAGATGATGTCTTGGATCTGAATAACAGTGACTTGATTGCATGCACAGTCATC
ACCAAGGATGGTGGTATGGTCCAGCGGTTCCTGGCTGTGGACATTTACCAGATGAGCCTGGTGGAGCCTG
ACGTATCCAGACTTGGCTGGGGAGTGGTCAAGTTTGCTGGCCTTCTACAGGACATGCAGGTGACAGGAGT
GGAGGATGACAGCCGTGCCCTGAACATCACCATTCACAAGCCTGCCTCCAGCCCGCACTCTAAGCCCTTC
CCTATCCTGCAGGCCACCTTCGTGTTCTCGGATCATATCCGCTGCATTATTGCCAAGCAGCGCCTGGCCA
AGGGCCGCATCCAGGCCAGGCGCATGAAGATGCAGAGGATAGCCGCCCTTCTGGACCTCCCAATCCAGCC
GACAACAGAAGTCCTGGGATTTGGACTCTGCTCCTCCTCCTCCTCCTCCCAGCACCTGCCTTTCCGTTTC
TATGAGCAGTGCCGCAGAGGCAGCAGTGACCCGACAGTGCAACGCTCTGTGTTTGCATCCGTAGACAAGG
TGCCAGGCTTTGCTGTGGCCCAGTGCATAAACCAGCATAGCTCTCCATCCCTGTCATCACCGTCGCCACC
ATTTGCCAGTGGGAGCCCTGGTGGCAGTGGAAGCACCAGCCACTGTGACTCAGGAGGCTCTTCCTCTGCA
CCCTCAGCAACCCAGAGCCCGGCAGATGCCCCCACGACTCCAGAACAGCCTCAGCCTCACCTAGACCAGT
CAGTGATTGGGAATGAAATGGATGTCAACTCCAAGCCCAGCAAGAACTCATCGGCCAGGAGCTCTGAGGG
GGAGACAATGCACCTGTCCCCTAGCCTCCTTCCCGCCCAGCAGCCCACCATCTCCTTGCTCTACGAGGAC
ACTGCTGACACACTGAGTGTCGAGTCACTGACCATTGTCCCCCCGGTCGATCCCCACAGCCTCCGAGCCC
TCTCTGGCATCTCCCAGCTCCCCACACTGCCTGCAGCAGATACGGAGACCCCAGCTGAGGGTGCTGTAAA
CCCAGAGCCTGCGGAACCCACAGAGCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177562

Insert Size: 3111 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_177562.5, NP_808230.2

RefSeq Size: 6262 bp

RefSeq ORF: 3111 bp

Locus ID:	74374
UniProt ID:	Q80U30
Cytogenetics:	16 A1
Gene Summary:	Regulator of mitophagy through the upstream regulation of the RNF41/NRDP1-PRKN pathway. Mitophagy is a selective form of autophagy necessary for mitochondrial quality control. The RNF41/NRDP1-PRKN pathway regulates autophagosome-lysosome fusion during late mitophagy. May protect RNF41/NRDP1 from proteosomal degradation, RNF41/NRDP1 which regulates proteosomal degradation of PRKN. Plays a key role in beta cells functions by regulating mitophagy/autophagy and mitochondrial health.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.